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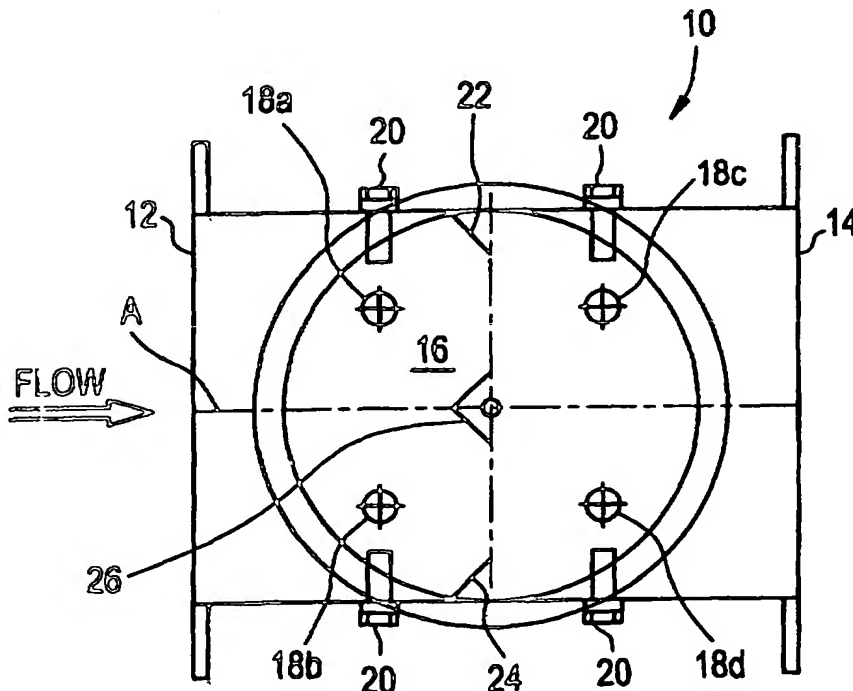
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(54) Title: **APPARATUS FOR IRRADIATING FLUIDS WITH UV**



(57) **Abstract:** An apparatus for irradiating fluids with UV including a reactor vessel (10) having a fluid inlet (12), a fluid outlet (14) and a reaction chamber (16); a plurality of UV lamps (18a-d) extending across the reaction chamber (16) and substantially perpendicularly to an axis (A) extending between the fluid inlet (12) and the fluid outlet (14); an upper fluid diverter (22) and a lower fluid diverter (24) extending across the reaction chamber (16) substantially parallel to the lamps (18a-d) and positioned downstream of at least one upstream UV lamp (18a, b), wherein the upper and lower fluid diverters (22, 24) are positioned to direct fluids toward at least one UV lamp (18c, d) downstream of the upstream UV lamp (18a, b).

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